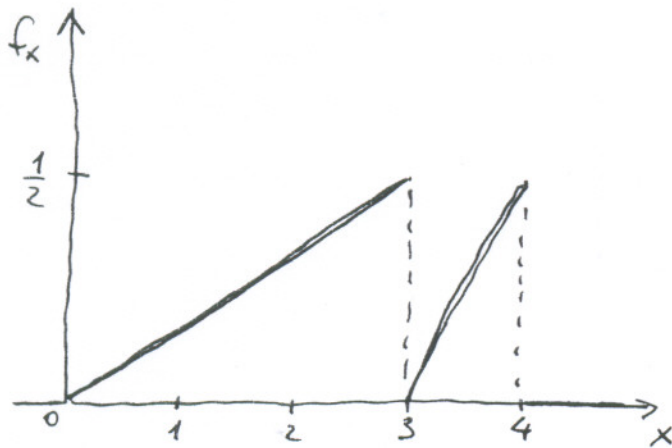


2)

$$F_x(x) = \begin{cases} 0 & x \leq 0 \\ \frac{x^2}{12} & 0 \leq x \leq 3 \\ \frac{3}{4} + \frac{(x-3)^2}{4} & 3 \leq x \leq 4 \\ 1 & 4 \leq x \end{cases}$$

$$f_x(x) = F_x'(x) = \frac{dF_x(x)}{dx}$$

$$f_x(x) = \begin{cases} 0 & x \leq 0 \\ \frac{x}{6} & 0 \leq x \leq 3 \\ \frac{x-3}{2} & 3 \leq x \leq 4 \\ 0 & 4 \leq x \end{cases}$$



$$\underline{\underline{P(X \leq 3) = F_x(3) = \frac{3^2}{12} = \frac{9}{12} = \frac{3}{4} = 0.75}}$$

LAKKO TUDI IZ GRAFA $f_x(x)$: PLOŠČINA "LEVEGA" TRIKOTNIKA

$$P(X \leq 3) = 3 \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{3}{4}$$